

# Asbestos Survey Report

H.013842 – Causeway Blvd. – Earhart Expressway]  
1700 S. Causeway Boulevard  
Metairie, Louisiana 70001

August 19, 2021  
Terracon Project No. ET217145



**Prepared for:**  
Louisiana Department of Transportation  
Baton Rouge, Louisiana

**Prepared by:**  
Terracon Consultants, Inc.  
New Orleans, Louisiana

[terracon.com](http://terracon.com)

**Terracon**

Environmental



Facilities



Geotechnical



Materials



August 19, 2021

Louisiana Department of Transportation (LADOT)  
P.O. Box 94245  
Baton Rouge, Louisiana 70804

Attn: Ms. Radha Kumar (DOTD Program Specialist)  
P: 225.242.4554  
E: [Radha.Kumar@la.gov](mailto:Radha.Kumar@la.gov)

**Re: Asbestos Survey Report**  
H.013842 – Causeway Boulevard – Earhart Expressway  
1700 S. Causeway Boulevard  
Metairie, Louisiana 70001  
Terracon Project No. ET217145

Dear Ms. Kumar:

The purpose of this report is to present the results of the services performed at the residential structure located at 1700 S. Causeway Boulevard in Metairie, Louisiana. The scope of work included an asbestos survey. These services were conducted in general accordance with our Right of Way Consultant Task Order Assignment dated August 2, 2021, and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020. Terracon understands that this survey was requested due to the planned demolition of the structure.

Asbestos-containing materials (ACM) were not identified at the subject site. Please refer to the attached report for details.

Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (504) 818-3638.

Sincerely,  
**Terracon Consultants, Inc.**



Steven M. Latiolais  
Group Manager



for: Zack L. Dial, P.E.  
Office Manager



Terracon Consultants, Inc. 524 Elmwood Park Blvd. Suite 170 New Orleans, Louisiana 70123  
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**ASBESTOS SURVEY REPORT**  
**H.013842 – Causeway Boulevard – Earhart Expressway**  
**1700 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**  
**August 19, 2021**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey of the above referenced structure located at 1700 S. Causeway Boulevard in Metairie, Louisiana. The survey was conducted by Terracon's Louisiana Department of Environmental Quality (LDEQ) accredited asbestos inspector. The scope of Terracon's survey included an asbestos survey. All work was conducted in accordance with our Right of Way Consultant Task Order Assignment dated June 11, 2021, and the IDIQ Contract for Right of Way Services (Contract No. 40000125) dated November 19, 2020.

### **1.1 Project Objective**

The scope of services included a survey for asbestos-containing materials (ACM) in compliance with the United States Environmental Protection Agency (USEPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), and Louisiana Environmental Regulatory Code (ERC) Title 33, Part III, Section 5151 (Chapter 51), which prohibit the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP and Chapter 51 require that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances during demolition or renovation activities.

## **2.0 BUILDING DESCRIPTION**

The subject structure consists of an approximately 1,000-square foot, single-story, pier and beam structure with wooden frame, wooden shiplap siding, and a pitched asphalt shingled roof. Interior finishes largely consisted of gypsum board walls and ceilings with carpet, vinyl, and ceramic flooring.

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### **3.0 FIELD ACTIVITIES**

The asbestos survey was conducted by LDEQ accredited asbestos inspector Carlos J. Arguello (AI#: 28221486). The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). A summary of survey activities is provided below.

#### **3.1 Visual Assessment**

Our survey activities began with visual observation of the interior and exterior of the building proposed for renovation/demolition to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, and texture with consideration given to the date of application. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

Terracon could not assess all void spaces within walls and ceilings or beneath all floor coverings. Therefore, there may be isolated areas of additional suspect material present in the structure.

#### **3.2 Physical Assessment**

A physical assessment of each homogeneous area (HA) of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material that can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

#### **3.3 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. The inspector collected bulk samples using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Thirty-four bulk samples were collected from ten homogeneous areas of suspect ACM from the structure. A summary of suspected ACM materials collected during the survey is included as Appendix A. Selective photographs of HAs are presented in Appendix C.

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### 3.4 Sample Analysis

Bulk samples were submitted under chain-of-custody to Eurofins EMLab P&K of Houston, Texas (NVLAP Accreditation No 600122-0, LELAP Accreditation No 05087) for analysis by polarized light microscopy with dispersion staining techniques per EPA methods (40 CFR 763, Subpart E). The asbestos content, where applicable, was determined by microscopic visual estimation. The laboratory analytical report is included in Appendix B.

## 4.0 REGULATORY OVERVIEW

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Under NESHAP, ACM is identified as either friable, Category I non-friable or Category II non-friable ACM. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos containing material (RACM).

RACM includes all friable ACM, along with Category I and Category II non-friable ACM that has become friable, will be or has been subjected to sanding, grinding, cutting or abrading, or ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder in the course of renovation or demolition activity.

Category I non-friable ACM are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II non-friable ACM are all other non-friable materials other than Category I non-friable ACM that contain more than 1% asbestos. Category II non-friable ACM generally includes but is not limited to cementitious material such as: cement pipes, cement siding, cement panels, glazing, mortar and grouts.

The State of Louisiana has established Chapter 27 of the ERC (LAC 33:III.Chapter 27) to regulate the identification, management, and abatement of ACM in schools and state buildings. Chapter 27 requires any asbestos-related activity in a school or state building to be performed by an individual or company accredited by the State of Louisiana, through the LDEQ. An asbestos-related activity consists of the disturbance (whether intentional or unintentional) or abatement of ACM, the performance of asbestos surveys, the development of management plans and response actions, asbestos project design, the collection or analysis of asbestos samples, monitoring for airborne asbestos or any other activity required to be accredited under Louisiana Department of Environmental Quality Chapter 27 Appendix A.

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In non-state, non-school buildings, the State of Louisiana sets forth emission standards for asbestos under Chapter 51 of the ERC (LAC 33:III.Chapter 51). Per Chapter 51 Section P, the following activities, when conducted, must be performed by accredited individuals: asbestos surveys, asbestos abatement, and monitoring for airborne asbestos.

The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. LDEQ requires a notification by submitting either an AAC-2 (a) form or AAC-2 (b) form. An AAC 2 (a) form is required when requesting Asbestos Disposal Verification Forms (ADVF) for Asbestos Contaminated Debris Activities (ACDA), Demolition, Renovation, and/or Response Action projects where Regulated Asbestos Containing Material (RACM) is present, or assumed to be present, above the established thresholds or as otherwise required by LAC 33:III.5151.F.1. The AAC-2 (a) form must be either postmarked or hand delivered to the Department at least 10 working days prior to the scheduled dates of asbestos removal. An AAC 2 (b) form is required when greater than 64 square feet of Vinyl Asbestos Tile (VAT) is removed without the intent of making it RACM, or when lab analysis of properly sampled materials indicates that no ACM is present; that ACM present is not RACM and will not be made RACM by the demolition; or that all RACM present is less than established thresholds. The established thresholds per LAC 33:III.5151.F.1 include the combined amount of RACM less than 60 linear feet on pipes, 64 square feet on other facility components or 27 cubic feet of material where length or area could not be measured previously. A Form AAC-2 (b) must be postmarked or hand delivered to the Department at least 5 working days prior to the scheduled date of asbestos removal or 3 working days if the removal only includes resilient floor covering per LAC 33:III.5151.F.2.c.

Any individual or company contracted to perform a demolition or renovation activity that disturbs RACM above established regulatory thresholds must be recognized by the Louisiana Licensing Board for Contractors to perform asbestos abatement.

The United States Occupational Safety and Health Administration (USOSHA) asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The USOSHA standard requires that employee exposure to airborne asbestos must not exceed 0.1 fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA) and not exceed 1.0 fibers per cubic centimeter of air (1.0 f/cc) over a 30-minute time period known as an excursion limit (EL). The TWA and EL are known as USOSHA's asbestos permissible exposure limits (PELs). The USOSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work. The standard also specifies requirements for handling materials containing asbestos in concentrations less than or equal to 1%.

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## **5.0 FINDINGS & RECOMMENDATIONS**

Asbestos was not detected in the samples collected and analyzed as part of our sampling at this site.

The Louisiana Air Quality Regulations (LAC 33:II Chapter 51, Subchapter M) require that an inspection be conducted by a person currently accredited as an LDEQ asbestos inspector. The results of this survey did not identify any asbestos-containing materials, however, LDEQ requires written notification (AAC-2b) prior to any demolition activity, regardless of whether the building contains asbestos.

It should be noted that suspect materials, other than those identified during this survey, may exist within the building. Should suspect materials other than those that were identified during this survey be uncovered during the demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

A summary of each material sampled and analyzed is presented in Appendix A. Laboratory analytical reports are presented in Appendix B. Room ID designations, and sample locations are presented in Appendix D.

## **6.0 GENERAL COMMENTS**

This asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the building. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Louisiana Department of Transportation for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

**APPENDIX A  
ASBESTOS SURVEY SAMPLE SUMMARY**

**TABLE 1.0**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**H.013842 – Causeway Blvd. – Earhart Expressway**  
**1700 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
01	White drywall and Joint compound	Throughout Residence	Good	01-01	Gypsum = None Detected Joint compound = None Detected
				01-02	Gypsum = None Detected Joint compound = None Detected
				01-03	Gypsum = None Detected Joint compound = None Detected
02	Brown Faux wood 16" x 16" ceramic tile, brown grout, Grey leveler, and Black vinyl	Living room + Hallway + Kitchen/Dining	Good	02-04	Ceramic tile = None Detected Grout = None Detected Leveler = None Detected Vinyl = None Detected
				02-05	Ceramic tile = None Detected Grout = None Detected Leveler = None Detected Vinyl = None Detected
				02-06	Ceramic tile = None Detected Grout = None Detected Leveler = None Detected Vinyl = None Detected
03	Black sheet flooring	Bedroom 1	Good	03-07	None Detected
				03-08	None Detected
				03-09	None Detected
04	White 16" x 16" Ceramic tile and Gray Grout	Bathroom 1 & 2	Good	04-10	Tile = None Detected Grout = None Detected
				04-11	Tile = None Detected Grout = None Detected
				04-12	Tile = None Detected Grout = None Detected

**TABLE 2.0**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**H.0138472 – Causeway Blvd. – Earhart Expressway**  
**1700 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
05	White Wall texture	Throughout residence	Good	05-13	None Detected
				05-14	None Detected
				05-15	None Detected
				05-16	None Detected
				05-17	None Detected
06	White ceiling texture	Throughout residence	Good	06-18	None Detected
				06-19	None Detected
				06-20	None Detected
				06-21	None Detected
				06-22	None Detected
07	Tar Paper Vapor Barrier	Between façade & interior	Good	07-23	None Detected
				07-24	None Detected
				07-25	None Detected
08	Brown carpet	Bedrooms 1, 2, 3.	Good	08-26	None Detected
				08-27	None Detected
				08-28	None Detected
09	White window Caulk	Exterior windows	Good	09-29	None Detected
				09-30	None Detected
				09-31	None Detected

**TABLE 2.0**  
**ASBESTOS SURVEY SAMPLE SUMMARY**  
**H.0138472 – Causeway Blvd. – Earhart Expressway**  
**1700 Causeway Boulevard**  
**Metairie, Louisiana**  
**Terracon Project No. ET217145**

HA	Material Description	Material Location	Condition	Sample Number	Lab Results
10	Black roof shingles and Tar paper	Roof	Good	10-32	Shingles = None Detected Paper = None Detected
				10-33	Shingles = None Detected Paper = None Detected
				10-34	Shingles = None Detected Paper = None Detected

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORTS**

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**ASBESTOS ANALYTICAL REPORT**  
**By: Polarized Light Microscopy**

Prepared for

**Steven Latiolais**

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CLIENT PROJECT: 1700 S. Causeway H.013842

EMLab ID#: 2705501

TEST METHOD: EPA METHOD 600/R93/116 & EPA 40CFR App E to Sub E of Part 763

REPORT DATE: 08-13-2021

TOTAL SAMPLES ANALYZED: 34

# SAMPLES >1% ASBESTOS: 0

**PROJECT:** 1700 S. Causeway H.013842

**EMLab #ID:** 2705501

**METHOD:** EPA METHOD 600/R93/116 & EPA 40CFR App E to Sub E of Part 763

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
01-01	1	12953163	Gray	Drywall with Brown Paper	None Detected
	2	12953163	White	Joint Compound	None Detected
01-02	1	12953164	Gray	Drywall with Brown Paper	None Detected
	2	12953164	White	Joint Compound	None Detected
01-03	1	12953165	Gray	Drywall with Brown Paper	None Detected
	2	12953165	White	Joint Compound	None Detected
02-04	1	12953166	Brown	Ceramic Tile	None Detected
	2	12953166	Gray	Grout	None Detected
	3	12953166	Light Gray	Compound	None Detected
	4	12953166	Green	Sheet Flooring	None Detected
	5	12953166	Transparent	Adhesive	None Detected
02-05	1	12953167	Brown	Ceramic Tile	None Detected
	2	12953167	Gray	Grout	None Detected
	3	12953167	Light Gray	Compound	None Detected
	4	12953167	Green	Sheet Flooring	None Detected
	5	12953167	Transparent	Adhesive with Wood	None Detected
02-06	1	12953168	Brown	Ceramic Tile	None Detected
	2	12953168	Gray	Grout	None Detected
	3	12953168	Light Gray	Compound	None Detected
03-07	1	12953169	Off-White	Compound	None Detected
	2	12953169	Green	Sheet Flooring	None Detected
	3	12953169	Transparent	Adhesive	None Detected
03-08	1	12953170	Off-White	Compound	None Detected
	2	12953170	Green	Sheet Flooring	None Detected
	3	12953170	Transparent	Adhesive	None Detected
03-09	1	12953171	Off-White	Compound	None Detected
	2	12953171	Green	Sheet Flooring	None Detected
	3	12953171	Transparent	Adhesive	None Detected

**PROJECT:** 1700 S. Causeway H.013842

**EMLab #ID:** 2705501

**METHOD:** EPA METHOD 600/R93/116 & EPA 40CFR App E to Sub E of Part 763

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
04-10	1	12953172	White	Ceramic Tile	None Detected
	2	12953172	Gray	Grout	None Detected
	3	12953172	Light Gray	Compound	None Detected
04-11	1	12953173	White	Ceramic Tile	None Detected
	2	12953173	Black	Grout	None Detected
	3	12953173	Gray	Grout	None Detected
	4	12953173	Light Gray	Compound	None Detected
04-12	1	12953174	White	Ceramic Tile	None Detected
	2	12953174	Gray	Grout	None Detected
	3	12953174	Light Gray	Compound	None Detected
05-13	1	12953175	White	Texture with Brown Paper, Paint	None Detected
	2	12953175	White	Texture with Multilayered Paint	None Detected
05-14	1	12953176	White	Texture with Multilayered Paint	None Detected
	2	12953176	White	Texture with Multilayered Paint	None Detected
05-15	1	12953177	White	Texture with Brown Paper, Paint	None Detected
	2	12953177	White	Texture with Multilayered Paint	None Detected
	3	12953177	White	Texture with Multilayered Paint	None Detected
05-16	1	12953178	White	Texture with Brown Paper, Paint	None Detected
	2	12953178	White	Texture with Multilayered Paint	None Detected
	3	12953178	White	Texture with Multilayered Paint	None Detected
05-17	1	12953179	White	Texture with Brown Paper, Paint	None Detected
	2	12953179	White	Texture with Multilayered Paint	None Detected
	3	12953179	White	Texture with Multilayered Paint	None Detected
06-18	1	12953180	White	Ceiling Texture with White Paint	None Detected
	2	12953180	White	Ceiling Texture with White Paint	None Detected
06-19	1	12953181	Gray	Drywall with Brown Paper	None Detected
	2	12953181	White	Ceiling Texture with Multilayered Paint	None Detected
06-20	1	12953182	Gray	Drywall with Brown Paper and Paint	None Detected
	2	12953182	White	Ceiling Texture with White Paint	None Detected

**PROJECT:** 1700 S. Causeway H.013842

**EMLab #ID:** 2705501

**METHOD:** EPA METHOD 600/R93/116 & EPA 40CFR App E to Sub E of Part 763

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
06-21	1	12953183	Gray	Drywall with Brown Paper and Paint	None Detected
	2	12953183	White	Ceiling Texture with White Paint	None Detected
06-22	1	12953184	Gray	Drywall with Brown Paper and Paint	None Detected
	2	12953184	White	Ceiling Texture with White Paint	None Detected
	3	12953184	White	Ceiling Texture with White Paint	None Detected
07-23	1	12953185	Black	Vapor Barrier	None Detected
07-24	1	12953186	Black	Vapor Barrier	None Detected
	2	12953186	Pink	Insulation	None Detected
07-25	1	12953187	Black	Vapor Barrier	None Detected
	2	12953187	Brown	Felt	None Detected
08-26	1	12953188	Light Brown	Carpet	None Detected
	2	12953188	Multicolored	Foam	None Detected
08-27	1	12953189	Light Brown	Carpet	None Detected
	2	12953189	Multicolored	Foam	None Detected
08-28	1	12953190	Light Brown	Carpet	None Detected
	2	12953190	Multicolored	Foam	None Detected
09-29	1	12953191	White	Caulk with Orange Paint	None Detected
	2	12953191	White	Caulk with Multilayered Paint	None Detected
09-30	1	12953192	White	Caulk with Multilayered Paint	None Detected
09-31	1	12953193	White	Caulk with Orange Paint	None Detected
	2	12953193	White	Caulk with Multilayered Paint	None Detected
10-32	1	12953194	Brown	Roofing Shingle with Black Pebbles	None Detected
	2	12953194	Black	Roofing Tar Paper	None Detected
10-33	1	12953195	Brown	Roofing Shingle with Black Pebbles	None Detected
	2	12953195	Black	Roofing Tar Paper	None Detected
10-34	1	12953196	Brown	Roofing Shingle with Black Pebbles	None Detected
	2	12953196	Black	Roofing Tar Paper	None Detected

Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Total Samples Submitted:** 34**Total Samples Analyzed:** 34**Total Samples with Layer Asbestos Content > 1%:** 0**Location: 01-01, White Drywall and Joint Compound**

Lab ID-Version‡: 12953163-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper	ND
White Joint Compound	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 01-02, White Drywall and Joint Compound**

Lab ID-Version‡: 12953164-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper	ND
White Joint Compound	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 01-03, White Drywall and Joint Compound**

Lab ID-Version‡: 12953165-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper	ND
White Joint Compound	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 02-04, Brown, Faux Wood 16"x16" Ceramic Tiles with Brown Grout and Grey Leveler, Black Vinyl**

Lab ID-Version‡: 12953166-1

Sample Layers	Asbestos Content
Brown Ceramic Tile	ND
Gray Grout	ND
Light Gray Compound	ND
Green Sheet Flooring	ND
Transparent Adhesive	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 02-05, Brown, Faux Wood 16"x16" Ceramic Tiles with Brown Grout and Grey Leveler, Black Vinyl**

Lab ID-Version‡: 12953167-1

Sample Layers	Asbestos Content
Brown Ceramic Tile	ND
Gray Grout	ND
Light Gray Compound	ND
Green Sheet Flooring	ND
Transparent Adhesive with Wood	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 02-06, Brown, Faux Wood 16"x16" Ceramic Tiles with Brown Grout and Grey Leveler, Black Vinyl**

Lab ID-Version‡: 12953168-1

Sample Layers	Asbestos Content
Brown Ceramic Tile	ND
Gray Grout	ND
Light Gray Compound	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 03-07, Black Sheet Flooring**

Lab ID-Version‡: 12953169-1

Sample Layers	Asbestos Content
Off-White Compound	ND
Green Sheet Flooring	ND
Transparent Adhesive	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 03-08, Black Sheet Flooring**

Lab ID-Version‡: 12953170-1

Sample Layers	Asbestos Content
Off-White Compound	ND
Green Sheet Flooring	ND
Transparent Adhesive	ND
<b>Sample Composite Homogeneity:</b>	Poor

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Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 03-09, Black Sheet Flooring**

Lab ID-Version‡: 12953171-1

Sample Layers	Asbestos Content
Off-White Compound	ND
Green Sheet Flooring	ND
Transparent Adhesive	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 04-10, White 16"x16" Ceramic Tile and Gray Grout**

Lab ID-Version‡: 12953172-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
Light Gray Compound	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 04-11, White 16"x16" Ceramic Tile and Gray Grout**

Lab ID-Version‡: 12953173-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Black Grout	ND
Gray Grout	ND
Light Gray Compound	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 04-12, White 16"x16" Ceramic Tile and Gray Grout**

Lab ID-Version‡: 12953174-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
Light Gray Compound	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b> Poor	

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Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 05-13, White Wall Texture**

Lab ID-Version‡: 12953175-1

Sample Layers	Asbestos Content
White Texture with Brown Paper, Paint	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 05-14, White Wall Texture**

Lab ID-Version‡: 12953176-1

Sample Layers	Asbestos Content
White Texture with Multilayered Paint	ND
White Texture with Multilayered Paint	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 05-15, White Wall Texture**

Lab ID-Version‡: 12953177-1

Sample Layers	Asbestos Content
White Texture with Brown Paper, Paint	ND
White Texture with Multilayered Paint	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 05-16, White Wall Texture**

Lab ID-Version‡: 12953178-1

Sample Layers	Asbestos Content
White Texture with Brown Paper, Paint	ND
White Texture with Multilayered Paint	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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Client: Terracon - New Orleans  
 C/O: Steven Latiolais  
 Re: 1700 S. Causeway H.013842

Date of Sampling: 08-09-2021  
 Date of Receipt: 08-10-2021  
 Date of Report: 08-13-2021

**ASBESTOS PLM REPORT****Location: 05-17, White Wall Texture**

Lab ID-Version‡: 12953179-1

Sample Layers	Asbestos Content
White Texture with Brown Paper, Paint	ND
White Texture with Multilayered Paint	ND
White Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 06-18, White Ceiling Texture**

Lab ID-Version‡: 12953180-1

Sample Layers	Asbestos Content
White Ceiling Texture with White Paint	ND
White Ceiling Texture with White Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 06-19, White Ceiling Texture**

Lab ID-Version‡: 12953181-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper	ND
White Ceiling Texture with Multilayered Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 06-20, White Ceiling Texture**

Lab ID-Version‡: 12953182-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper and Paint	ND
White Ceiling Texture with White Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 06-21, White Ceiling Texture**

Lab ID-Version‡: 12953183-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper and Paint	ND
White Ceiling Texture with White Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 06-22, White Ceiling Texture**

Lab ID-Version‡: 12953184-1

Sample Layers	Asbestos Content
Gray Drywall with Brown Paper and Paint	ND
White Ceiling Texture with White Paint	ND
White Ceiling Texture with White Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 07-23, Tar Paper Vapor Barrier**

Lab ID-Version‡: 12953185-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
<b>Composite Non-Asbestos Content:</b>	65% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 07-24, Tar Paper Vapor Barrier**

Lab ID-Version‡: 12953186-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Pink Insulation	ND
<b>Composite Non-Asbestos Content:</b>	65% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 07-25, Tar Paper Vapor Barrier**

Lab ID-Version‡: 12953187-1

Sample Layers	Asbestos Content
Black Vapor Barrier	ND
Brown Felt	ND
<b>Composite Non-Asbestos Content:</b>	70% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 08-26, Brown Carpet**

Lab ID-Version‡: 12953188-1

Sample Layers	Asbestos Content
Light Brown Carpet	ND
Multicolored Foam	ND
<b>Composite Non-Asbestos Content:</b>	10% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 08-27, Brown Carpet**

Lab ID-Version‡: 12953189-1

Sample Layers	Asbestos Content
Light Brown Carpet	ND
Multicolored Foam	ND
<b>Composite Non-Asbestos Content:</b>	10% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 08-28, Brown Carpet**

Lab ID-Version‡: 12953190-1

Sample Layers	Asbestos Content
Light Brown Carpet	ND
Multicolored Foam	ND
<b>Composite Non-Asbestos Content:</b>	10% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Poor

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Client: Terracon - New Orleans  
C/O: Steven Latiolais  
Re: 1700 S. Causeway H.013842Date of Sampling: 08-09-2021  
Date of Receipt: 08-10-2021  
Date of Report: 08-13-2021**ASBESTOS PLM REPORT****Location: 09-29, White Window Caulk**

Lab ID-Version‡: 12953191-1

Sample Layers	Asbestos Content
White Caulk with Orange Paint	ND
White Caulk with Multilayered Paint	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 09-30, White Window Caulk**

Lab ID-Version‡: 12953192-1

Sample Layers	Asbestos Content
White Caulk with Multilayered Paint	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 09-31, White Window Caulk**

Lab ID-Version‡: 12953193-1

Sample Layers	Asbestos Content
White Caulk with Orange Paint	ND
White Caulk with Multilayered Paint	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 10-32, Black Rook Shingles and Tar Paper**

Lab ID-Version‡: 12953194-1

Sample Layers	Asbestos Content
Brown Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: Terracon - New Orleans  
 C/O: Steven Latiolais  
 Re: 1700 S. Causeway H.013842

Date of Sampling: 08-09-2021  
 Date of Receipt: 08-10-2021  
 Date of Report: 08-13-2021

**ASBESTOS PLM REPORT**

**Location: 10-33, Black Rook Shingles and Tar Paper**

Lab ID-Version‡: 12953195-1

Sample Layers	Asbestos Content
Brown Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 10-34, Black Rook Shingles and Tar Paper**

Lab ID-Version‡: 12953196-1

Sample Layers	Asbestos Content
Brown Roofing Shingle with Black Pebbles	ND
Black Roofing Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose 5% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Report for:

**Steven Latiolais**  
**Terracon - New Orleans**  
524 Elmwood Park Blvd Ste 170  
New Orleans, LA 70123

---

Regarding: Project: 1700 S. Causeway H.013842  
EML ID: 2705501

Approved by:

Dates of Analysis:  
Asbestos PLM: 08-13-2021



Approved Signatory  
Gregorio Delgado

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 600122-0

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



# Terracon

## Asbestos Bulk Sample Log & Chain of Custody Form

New Orleans: 524 Elmwood Park Blvd., Ste. 170, New Orleans, LA 70133 (504) 818 3638

Lab: 002705501



Lab Location

Sample Number	Sample Location	HA Description (Color, Dimensions, Descriptor, then Type)	HA General Location	Estimated Quantity	Condition <sup>1</sup>
01-01	Living Rm	White drywall + joint compound	Throughout		G D SD
01-02	Bedroom 1				G D SD
01-03	Bedroom 2				G D SD
02-04	Living Rm	Brown faux wood 16"x16" ceramic tiles w/ brown grout + gray base/bleed	Bedroom 1	450	G D SD
02-05	Bedroom 1				G D SD
02-06	Kitchen				G D SD
03-07	Bedroom	Black Sheet Flooring	Bedroom 1	120	G D SD
03-08					G D SD
03-09					G D SD
04-10	BR. 3 BR	White 16"x16" ceramic tile + gray grout	Bathrooms 1 + 2	80	G D SD
04-11	BR 2 BR				G D SD
04-12	BR 2 RR				G D SD
05-13	Living Rm	White wall texture	Throughout	1800	G D SD
05-14	Bedroom 1				G D SD
05-15	Bedroom 2				G D SD
05-16	Hallway	<del>White ceiling texture</del>			G D SD
05-17	Bedrooms				G D SD
06-18	Living Rm	White ceiling texture	Throughout	1,000	G D SD
06-19	Bedroom 1				G D SD
06-20	Bedroom 2				G D SD

05-16



Report for:

**Steven Latiolais**  
**Terracon - New Orleans**  
524 Elmwood Park Blvd Ste 170  
New Orleans, LA 70123

---

Regarding: Project: 1700 S. Causeway H.013842  
EML ID: 2705501

Approved by:

Dates of Analysis:  
Asbestos PLM: 08-13-2021



Approved Signatory  
Gregorio Delgado

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 600122-0

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**APPENDIX C**  
**PHOTOGRAPH LOG**



**Photograph No. 1**

HA-01: Drywall and joint compound



**Photograph No. 2**

HA-02: Brown Faux wood 16" x 16" ceramic tile, brown grout, Grey leveler, and Black vinyl



**Photograph No. 3**

HA-03: Black sheet flooring



**Photograph No. 4**

HA-04: White 16" x 16" Ceramic tile and Gray Grout



**Photograph No. 5**  
HA-05: White Wall texture



**Photograph No. 6**  
HA-06: White ceiling texture



**Photograph No. 7**  
HA-07: Tar Paper Vapor Barrier



**Photograph No. 8**  
HA-09: White window Caulk



**Photograph No. 9**

HA-05: Black roof shingles and Tar paper

**APPENDIX D**  
**EXHIBITS**



**APPENDIX E**  
**CERTIFICATIONS**

**STATE OF LOUISIANA**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

certifies that

*Carlos J Arguello*

Has complied with all requirements of the Louisiana Department of Environmental Quality  
and is authorized to perform the duties of

**Asbestos Inspector**

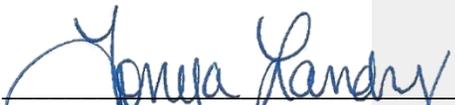
Accreditation No. DI221486

AI No. 221486

Date of Issuance January 11, 2021

Expiration December 23, 2021

Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)  
may result in civil and/or criminal enforcement actions by the State.

  
Permit Support Services Division  
Office of Environmental Services



**STATE OF LOUISIANA  
DEPARTMENT OF ENVIRONMENTAL QUALITY**

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



**Eurofins EMLab P&K Houston  
10900 Brittmoore Park Dr Ste G  
Houston, Texas 77041**

**Agency Interest No. 211116  
Activity No. ACC20200001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan  
Administrator  
Public Participation and Permit Support Services Division

Issued Date:

25 June 2020

Effective Date: **July 1, 2020**

Expiration Date: **June 30, 2021**

Certificate Number: **05087**

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:2017**

---

NVLAP LAB CODE: 600122-0

**Eurofins EMLab P&K**

Houston, TX

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

---

2020-04-01 through 2021-03-31

*Effective Dates*



A handwritten signature in blue ink, appearing to read "Dana S. Gorman".

---

*For the National Voluntary Laboratory Accreditation Program*